## WHAT IS CLAIMED IS:

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1. A process for identifying an agent that modulates the activity of a cancer-related gene comprising:

- (a) contacting a compound with a cell containing a gene that corresponds to a polynucleotide having a sequence selected from the group consisting of SEQ ID NO: 1, 2, 3 and 4 and under conditions promoting the expression of said gene; and
- (b) detecting a difference in expression of said gene relative to whensaid compound is not present

thereby identifying an agent that modulates the activity of a cancerrelated gene.

- 2 The process of claim 1 wherein said gene has a sequence selected 15 from the group consisting of SEQ ID NO: 1, 2, 3 and 4.
  - 3. The process of claim 1 wherein the cell is a cancer cell and the difference in expression is a decrease in expression.
  - 4. The process of claim 3 wherein said cancer cell is a breast or endometrium cancer cell.
  - 5. A process for identifying an anti-neoplastic agent comprising contacting a cell exhibiting neoplastic activity with a compound first identified as a cancer related gene modulator using the process of claim 1 and detecting a decrease in said neoplastic activity after said contacting compared to when said contacting does not occur.
- 6. The process of claim 5 wherein said neoplastic activity is accelerated cellular replication.

7. The process of claim 5 wherein said decrease in neoplastic activity results from the death of the cell.

- 8. A process for identifying an anti-neoplastic agent comprising administering to an animal exhibiting a cancer condition an effective amount of an agent first identified according to the process of claim 1 and detecting a decrease in said cancerous condition.
- 9. A process for determining the cancerous status of a cell, comprising determining an increase in the level of expression in said cell of a gene that corresponds to a polynucleotide having a sequence selected from the group consisting of SEQ ID NO: 1, 2, 3 and 4 wherein an elevated expression relative to a known non-cancerous cell indicates a cancerous state or potentially cancerous state.

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- 10. The process of claim 9 wherein said elevated expression is due to an increased copy number.
- 11. An isolated polypeptide comprising an amino acid sequence homologous to an amino acid sequence selected from the group consisting of SEQ ID NO: 5 and 6 wherein any difference between said amino acid sequence and the sequence of SEQ ID NO: 5 and 6 is due solely to conservative amino acid substitutions and wherein said isolated polypeptide comprises at least one immunogenic fragment.

- 12. An isolated polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 5 and 6.
- 13. An antibody that reacts with a polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 5 and 6.

14. The antibody of claim 13 wherein said antibody is a recombinant antibody.

- 15. The antibody of claim 13 wherein said antibody is a synthetic 5 antibody.
  - 16. The antibody of claim 13 wherein said antibody is a humanized antibody.
- 10 17. An immunoconjugate comprising the antibody of claim 13 and a cytotoxic agent.
  - 18. The antibody of claim 17 wherein said cytotoxic agent is a member selected from the group consisting of a calicheamicin, a maytansinoid, an adozelesin, a cytotoxic protein, a taxol, a taxotere, a taxoid and DC1.
  - 19. The immunoconjugate of claim 18 wherein said calicheamicin is calicheamicin  $\gamma_1^{\ l}$ , N-acetyl gamma calicheamicin dimethyl hydrazide or calicheamicin  $\theta_1^{\ l}$ .

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- 20. The immunoconjugate of claim 18 wherein said maytansinoid is DM1.
- 21. The immunoconjugate of claim 18 wherein said cytotoxic protein is ricin, abrin, gelonin, pseudomonas exotoxin or diphtheria toxin.
  - 22. The immunoconjugate of claim 18 wherein said taxol is paclitaxel.
- 23. The immunoconjugate of claim 18 wherein said taxotere is 30 docetaxel.

24. A process for treating cancer comprising contacting a cancerous cell *in vivo* with an agent having activity against an expression product encoded by a gene sequence selected from the group consisting of SEQ ID NO: 1, 2, 3 and 4.

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- 25. The process of claim 24 wherein said agent is an antibody of claim 13.
- 26. The process of claim 24 wherein said agent is an immunoconjugate 10 of claim 17.
  - 27. An immunogenic composition comprising a polypeptide of claim 11.
  - 28. An immunogenic composition comprising a polypeptide of claim 12.

- 29. The process of claim 24 wherein said cancer is breast or endometrium cancer.
- 30. A process for treating cancer in an animal afflicted therewith comprising administering to said animal an amount of an immunogenic composition of claim 27 sufficient to elicit the production of cytotoxic T lymphocytes specific for the polypeptide of claim 11.
- 31. A process for treating cancer in an animal afflicted therewith comprising administering to said animal an amount of an immunogenic composition of claim 28 sufficient to elicit the production of cytotoxic T lymphocytes specific for the polypeptide of claim 12.
- 32. A process for treating a cancerous condition in an animal afflicted therewith comprising administering to said animal a therapeutically effective amount of an agent first identified as having anti-neoplastic activity using the process of claim 8.

33. A process for protecting an animal against cancer comprising administering to an animal at risk of developing cancer a therapeutically effective amount of an agent first identified as having anti-neoplastic activity using the process of claim 8.

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- 34. The process of claim 30 wherein said animal is a human being.
- 35. The process of claim 30 wherein said cancer is breast or endometrium cancer.

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- 36. A method for producing test data with respect to the gene modulating activity of a compound comprising:
- (a) contacting a compound with a cell containing a polynucleotide comprising a nucleotide sequence corresponding to a gene whose expression is increased in a cancerous cell over that in a non-cancerous cell and under conditions wherein said polynucleotide is being expressed,
- (b) determining a change in expression of polynucleotides as a result of said contacting, and
- (c) producing test data with respect to the gene modulating activity of said compound based on a decrease in the expression of the determined gene whose expression is otherwise increased in a cancerous cell over that in a non-cancerous cell indicating gene modulating activity.